

Amendments to the Claims

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) An isolated nucleic acid comprising ~~any one of SEQ ID NOS:1-30~~ SEQ ID NO:1, or a sequence complementary to ~~any one of SEQ ID NOS:1-30~~ thereto.

2. (Withdrawn) An isolated nucleic acid comprising at least eight consecutive nucleotides of a nucleotide sequence of any one of SEQ ID NOS:2-29, or at least eight consecutive nucleotides of a nucleotide sequence complementary to any one of SEQ ID NOS:2-29.

3. (Withdrawn) An isolated nucleic acid comprising at least 80% nucleotide identity with a nucleic acid comprising any one of SEQ ID NOS:2-29, or at least 80% nucleotide identity with a sequence complementary to any one of SEQ ID NOS:1-29.

4. (Withdrawn) The isolated nucleic acid according to claim 3, wherein the nucleic acid comprises at least an 85%, 90%, 95%, or 98% nucleotide identity with a nucleic acid comprising any one of SEQ ID NOS:2-29, or comprises at least an 85%, 90%, 95%, or 98% nucleotide identity with a sequence complementary to any one of SEQ ID NOS:2-29.

5. (Withdrawn) An isolated nucleic acid that hybridizes in the presence of 50% formamide and 6X SCC with a nucleic acid comprising any one of SEQ ID NOS:2-29, or with a nucleic acid comprising a nucleotide sequence complementary to any one of SEQ ID NOS:2-29.

6. (Withdrawn) A nucleotide probe or primer specific for an ATP-binding cassette, subfamily C, member 11 (ABCC11) gene, wherein the nucleotide probe or primer comprises at least 15 consecutive nucleotides of a nucleotide sequence of

any one of SEQ ID NOS:2-29, or at least 15 consecutive nucleotides of a sequence complementary to any one of SEQ ID NOS:2-29.

ATP-binding cassette (ABC11)

7. (Currently amended) A nucleotide probe or primer specific for an ~~ABC11~~ gene, wherein the nucleotide probe or primer comprises the nucleotide sequence of ~~any one of SEQ ID NOS:1-30~~ SEQ ID NO:1, or a nucleotide sequence complementary to ~~any one of SEQ ID NOS:1-30~~ thereto.

8. (Withdrawn) A method of amplifying a region of the nucleic acid according to claim 1, comprising:

- a) contacting the nucleic acid with two nucleotide primers, wherein the first nucleotide primer hybridizes at a position 5' of the region of the nucleic acid to be amplified, and the second nucleotide primer hybridizes at a position 3' of the region of the nucleic acid to be amplified, in the presence of reagents necessary for an amplification reaction;
- b) amplifying the nucleic acid region; and
- c) detecting the amplified nucleic acid region.

9. (Withdrawn) The method according to claim 8, wherein each nucleic acid primer is independently selected from the group consisting of

- a) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence of any one of SEQ ID NOS:1-30,
- b) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence complementary to any one of SEQ ID NOS:1-30,
- c) a nucleotide primer comprising a nucleotide sequence of any one of SEQ ID NOS:1-30, and
- d) a nucleotide primer comprising a nucleotide sequence complementary to any one of SEQ ID NOS:2-30.

10. (Withdrawn) A kit for amplifying the nucleic acid according to claim 1, comprising:

- a) two nucleotide primers whose hybridization position is located respectively 5' and 3' of the region of the nucleic acid to be amplified; and optionally,
- b) one or more reagents necessary for an amplification reaction.

11. (Withdrawn) The kit according to claim 10, wherein each nucleic acid primer is independently selected from the group consisting of

- a) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence of any one of SEQ ID NOS:1-30,
- b) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence complementary to any one of SEQ ID NOS:1-30,
- c) a nucleotide primer comprising a nucleotide sequence of any one of SEQ ID NOS:1-30, and
- d) a nucleotide primer comprising a nucleotide sequence complementary to any one of SEQ ID NOS:1-30.

12. (Withdrawn) The nucleotide probe or primer according to claim 6 or claim 7, wherein the nucleotide probe or primer comprises a marker compound.

13. (Withdrawn) A method of detecting a nucleic acid according to claim 1, comprising:

- a) contacting the nucleic acid to be detected with a nucleotide probe selected from the group consisting of
 - i) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence of any one of SEQ ID NOS:1-30,
 - ii) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence complementary to any one of SEQ ID NOS:1-30,
 - iii) the nucleotide primer of claim 6 or claim 7,
 - iv) a nucleotide primer comprising the nucleotide sequence of any one of SEQ ID NOS:2-30, and
 - v) a nucleotide primer comprising a nucleotide sequence complementary to any one of SEQ ID NOS:2-30; and
- b) detecting a complex formed between the nucleic acid and the probe.

14. (Withdrawn) The method of claim 13, wherein the probe is immobilized on a support.

15. (Withdrawn) A kit for detecting the nucleic acid according to claim 1, wherein the kit comprises

- a) a nucleotide probe selected from the group consisting of
 - i) a nucleotide primer comprising at least 15 consecutive nucleotides of the nucleotide sequence of any one of SEQ ID NOS:1-30,
 - ii) a nucleotide primer comprising at least 15 consecutive nucleotides of a nucleotide sequence complementary to any one of SEQ ID NOS:1-30,
 - iii) the nucleotide primer of claim 6 or claim 7,
 - iv) a nucleotide primer comprising a nucleotide sequence of any one of SEQ ID NOS:2-30, and
 - v) a nucleotide primer comprising a nucleotide sequence complementary to any one of SEQ ID NOS:2-30; and optionally,
- b) one or more reagents necessary for a hybridization reaction.

16. (Withdrawn) The kit according to claim 15, wherein the probe is immobilized on a support.

17. (Currently amended) A recombinant vector comprising the nucleic acid according to claim 1.

18. (Original) The vector according to claim 17, wherein the vector is an adenovirus.

19. (Original) A recombinant host cell comprising the recombinant vector according to claim 17.

20. (Currently amended) A recombinant host cell comprising the nucleic acid according to claim 1.

21. (Previously presented) An isolated nucleic acid encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:31.

22. (Original) A recombinant vector comprising the nucleic acid according to claim 21.

23. (Original) A recombinant host cell comprising the nucleic acid according to claim 21.

24. (Original) A recombinant host cell comprising the recombinant vector according to claim 22.

25 – 40 (Canceled).